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MEMORANDUM

From: David Porter, SOUTHDIV

To:

Lawson Anderson, ENSAFE
Tonya Barker, NAS Memphis
Jack Carmichael, USGS
Jordan English, TDEC
Sue Hosmer, NAS Memphis
Keith Johns, ENSAFE

Sue Lawley, SOUTHDIV
CDR Mason, NAS Memphis
Jim Morrison, TDEC
Mark Taylor, SOUTHDIV
Clinton Willer, TDEC
David Williams, EPA Region IV
Rob Williamson, NAS Memphis

Subj: NAS MEMPHIS BRAC CLEANUP TEAM (BCT) MEETING, 23-26 JAN 95

Encl: (1) Meeting Minutes

1. Minutes of the subject meeting are forwarded as enclosure (1).

2. Reminders:

- Assembly B Work Plan comments are due by 13 February.
- Assembly C Work Plan comments are due by 6 March.
- Next BCT meeting is scheduled for the week of 27 February (RAB meeting on 28 February).

3. Please call if you have any corrections, additions, or questions at (803) 743-0610, DSN 563 (e-mail address: dlporter@efdsouth.navfac.navy.mil).



NAS MEMPHIS BCT MEETING MINUTES
23-26 JANUARY 1995

A meeting of the NAS Memphis BRAC Cleanup Team was convened at 1:00 pm on Monday 23 January. The following people were in attendance:

Lawson Anderson, EnSafe
Tonya Barker, NAS Memphis
Jack Carmichael, USGS
CDR David Clark, NAS Memphis
Phil Coop, EnSafe
Keith Johns, EnSafe
Jim Morrison, TDEC
Bill Parks, USGS
David Porter, SOUTHDIV
Mark Taylor, SOUTHDIV
Clinton Willer, TDEC (arrived later in the afternoon)
David Williams, EPA Region IV
Rob Williamson, NAS Memphis

David Porter discussed the agenda for the RAB meeting to be held Tuesday night. Dates were discussed for the RAB review of the work plans for Assemblies B and C, and it was decided to ask for comments from the RAB by 13 February for Assembly B and 27 February for Assembly C (BCT review dates were set at 13 February for Assembly B and 6 March for Assembly C). Lawson Anderson noted that Mr. Tim Augustine, regional manager for Northstar Drilling, would be at the RAB and would provide an 8 minute video on "rotasonic" drilling techniques. Mr. Augustine will also have a mock monitoring well and drill bits to show the RAB. Lawson Anderson provided a summary of results from the DPT investigation phase for Assembly A. It was decided to provide the summary as a handout to RAB members. Keith Johns noted that Dr. David Watt would be the community member introducing the presentation strawman. David Porter noted that both Frank Ryburn and Phil Whittenberg would be present to provide updates on the airport master plan and the base reuse plan. Lawson Anderson also provided a preliminary summary of "gray area" sampling. As the data is still being validated, it was decided not to provide the information as a handout at the RAB. David Porter will discuss the sampling in general terms and EnSafe will prepare a summary for a handout at the next RAB meeting. Both Mayor Harvell and CAPT Willis are out of town. CDR Clark will represent CAPT Willis at the RAB.

CDR Clark briefed the BCT on a situation with the Fixed Base Operator (FBO). The FBO is installing tanks at the former jet engine test cell, and the base is concerned about a number of safety and environmental issues. CDR Clark briefed the BCT in case the issue arises during the RAB meeting Tuesday night.

David Williams stated that we need to develop a Plan of Action for SWMU 7 so that we can quickly proceed with remediation once data becomes available.

Lawson Anderson noted that work on the development of a new base map was started today.

Lawson Anderson reported that a geophysical report on the TEM work completed will be available on 27 January. SWMU specific information will be placed in the RFI report.

Lawson Anderson presented sampling data and a draft preliminary risk assessment for SWMU 45. The only contaminant of concern appears to be benzo(a)pyrene which would be consistent with burned JP fuel. The levels of benzo(a)pyrene in the surficial soil sample collected immediately adjacent to the concrete pad, and a duplicate of this sample, were 130 J ppb and 250 J ppb. These level are below the EPA Region III risk based concentration for industrial soil (390 ppb), but above the concentration for residential soil (88 ppb). When metals with concentration less than 2 times background were excluded from the calculations, the risk sum for carcinogens and non-carcinogens were within the Region IV guidelines for both residential and industrial. David Williams asked about the availability of benzo(a)pyrene data for other sampling locations. Per Lawson Anderson, this information may be available from the laboratory for the DPT samples, as a F001-F005 Solvent Scan consists of a VOC/SVOC analysis. The laboratory was called to request this data. A decision on SWMU 45 was postponed until this data is available to determine the extent of benzo(a)pyrene.

Jim Morrison requested a monthly update on waste removed from the base during investigation/restoration work. Per Lawson Anderson, EnSafe will keep track of wastes transported to the Part B facility, and will calculate the pounds of contaminants using analytical data. Per Rob Williamson, the base will keep track of the date of disposal.

Clint Willer requested that he be informed once the dates for the Risk Assessment Training in Charleston are set.

The meeting was adjourned for the day at 4:00 pm.

The meet reconvened at 8:00 am on Tuesday, 24 January. The following people were present:

Lawson Anderson, EnSafe
Tonya Barker, NAS Memphis
Jack Carmichael, USGS
Jim Morrison, TDEC
Bill Parks, USGS
David Porter, SOUTHDIV
Mark Taylor, SOUTHDIV
Clinton Willer, TDEC

David Williams, EPA Region IV
Rob Williamson, NAS Memphis

David Porter discussed the strategy for the BRAC Cleanup Plan update, which is due to NAVFAC on 3 March. Various media personnel at SOUTHDIV are reviewing and editing the plan, and EnSafe will incorporate the changes and distribute the revised documents. Clint Willer noted that he would like to see the budgetary information before the plan is finalized.

David Porter discussed the need to obtain concurrence on "uncontaminated" property prior to the 18 month deadline under CERCLA (March 1995). Clint Willer stated that TDEC would concur with the areas categorized as "white", or "uncontaminated" in the Environmental Baseline Survey. These include the tennis courts and covered tennis courts. David Porter will send a letter to TDEC requesting concurrence.

This issue of IDW was discussed. The activity is concerned with the IDW drums on site from a liability standpoint, as they are accessible and are not under direct control of anyone when a site is vacated. It was decided that the drillers/EnSafe would move the drums at the end of each 10 day drilling cycle. Potentially hazardous waste will be taken to the permitted facility (N-1694), and non-hazardous waste will be taken to N-12. Mark Taylor and Lawson will develop a budget for disposal, and Mark Taylor will set up an account to transfer BRAC funds from SOUTHDIV to the activity.

The question of cores from the roto sonic drilling was discussed. Cores from SWMU 7 will be taken to the Part B facility. Non-hazardous cores are being stored at S-86. It was decided that the cores at S-86 will be disposed after analytical data becomes available.

Jack Carmichael noted that the background wells are being completed, and water level data will be taken next week to determine the direction of ground water flow.

Each of the "gray areas" was discussed and a summary for each of these areas is provided below. David Williams requested a Preliminary Risk Evaluation (PRE) for each site (the PRE would be for BCT use and review only, and would not be included in the Gray Area Report).

- N-122 An area outside the building on the south side was high for TPH and solvents. It was decided to remove the soil and resample (via EnSafe/subcontractor). If the results from the resampling are clean, the area will be reclassified from gray to light green.
- N-4 An area along the airport parking apron used for transient aircraft fueling. One TPH hit

of 89 ppm, less than action level. The area, however, will be further investigation because of the gasoline pits.

- Lakes Navy/Tanya/Louise. Tanya Lake had a very low level of merphos, and Lake Louise had a very low level of 2,4,5-TP (silvex). The area will be reclassified from gray to light green.
- runways Take off and approaches. Very low levels of VOCs. The area will be reclassified from gray to light green.
- gasoline pits TPH hits indicate a release. It was decided to use the RAC to remove the existing 7 pits under the tank program. Removal will include confirmatory sampling - full scans. If a problem is noted, the entire system will become a SWMU. Rationale: If anything is going to show up, it will be detected in the existing 7 pits as they are closest to the former N-94 tank farm which fed the system. At Tank 17 (surficial hit but no geoprobe hit): remove soil and resample (via EnSafe/subcontractor).
- arresting gear Reclassify from gray to light green.
- turkey shoot High lead. Grid and resample.
- N-7 Same situation as N-122 - remove soil and resample.
- pasture ponds Reclassify from gray to light green.
- former range Reclassify from gray to light green.

Each of the SWMUs under Assembly A were discussed and a summary for each of these areas is discussed below:

- SWMU 1 The only contaminant of possible concern is acetone. Acetone showed up at other SWMUs, and it is theorized that it came from the isopropanol used by the DPT crew for decon. The soil pile at the site will be analyzed using a full scan. If results are clean, the area will become a "no further action" (NFA) site.
- SWMU 8 DPT sampling had no detections. 4 additional wells will be installed using "rotasonic" drill. TDEC and EPA Region IV agreed to the following sampling strategy: quarterly for the 1st year,

then assuming nothing is found, yearly sampling for 2 additional years (3 years total).

- SWMU 60 Same as SWMU 8. Lower fluvial wells (DPT sampled upper fluvial aquifer with no problems detected). 60 to 70 ft wells with 10 ft screens.
- SWMU 3 No hits were detected during the DPT investigation. Monitoring wells will be installed. The BCT discussed the removal of the drywell through an interim measures. The RAC contractor will be used to remove the drywell, along with the drywell at SWMU 7 (data from drywell at SWMU 7 will be used to plan for the removal of the drywell at SWMU 3).
- SWMU 5 DPT detected petroleum contamination. Monitoring wells will be installed to determine if the contamination has left the site. Same monitoring requirements as SWMUs 8 and 60: quarterly for first year, then annually for the next 2 years.
- SWMU 7 Well placement strategy will be developed by EnSafe/USGS when the 4 stratigraphic holes are completed. Per EPA/TDEC, testing of potable well No. 1 is not required while it is shut down.

Both EPA and TDEC want to be informed of the location for the new south side potable water production well (planned replacement for well No. 1).

The meeting was adjourned for lunch at 11:30 pm, and reconvened at 1:00 pm. Jordan English, TDEC, was present for the late afternoon discussions.

The BCT made a site visit to view the "rotosonic" drilling at SWMU.

Following the site visit, David Porter presented the BCT Status Update for the RAB.

The sampling strategies for SWMU 36 (incinerator) and SWMU 27 (waste water treatment plant) were discussed, based on a review of old construction/as built plans for the facilities.

- SWMU 36 Sampling loading area and basement. Locate and sample near oil storage UST (probe or geophysics).
- SWMU 27 Sample sludge drying beds: hand auger 3 to 4 ft.

Re investigation of SWMU 40 under Assembly B (installation of 6 loess wells), Mark Taylor will check funding expiration rules to

determine if USGS or EnSafe will do the work. USGS was tasked in 1990, but 5 year funding limit may apply.

The meeting was adjourned for the day at 4:30 pm. A meeting of the RAB was held at 7:00 pm. Minutes of this meeting will be forwarded separately.

The BCT meeting reconvened Wednesday morning at 8:00 am.

The previous night's RAB meeting was discussed. The follow items resulted from the discussion:

- Need to compare with Risk Based Concentration (RBC) levels when giving RAB analytical results - use "plain English".
- Keith Johns will work with Sue Lawley/Hosmer to set up a separate meeting with the RAB community members to go forward with their presentation.
- David Williams noted a "frustration level" at the RAB and feels that we need to cover the basics and review the progress to date. After discussing this issued, it was decided that a short executive summary (in fact sheet language and format) would be prepared for the next meeting, along with an updated color map, and posters on the types of contaminants at NAS Memphis (including what they were used for, an indication of what level is "bad", etc.).
- David Williams noted that public wants and expects to hear from EPA and State regulators and requested that he and the State regulators be placed on the agenda to do status updates/summaries.
- Based on a comment by a RAB member regarding lack of Shelby county government participation, as well as the upcoming 1st year anniversary of the RAB and previous discussions re attendance and co-chairmanship, have an agenda items at the next RAB to discuss these issues.

Following this discussion, the following people conducted a field inspection of remote areas on the north side of the base:

Lawson Anderson, EnSafe
Jim Morrison, TDEC
David Porter, SOUTHDIV
Mark Taylor, SOUTHDIV
David Williams, EPA Region IV
Rob Williamson, NAS Memphis
PO Griffin, NAS Memphis

Following the field inspection which continued through Wednesday afternoon, Thursday morning, and part of Thursday afternoon, a discussion was held among the following people regarding SWMU 45:

Lawson Anderson, EnSafe
David Porter, SOUTHDIV
Mark Taylor, SOUTHDIV
David Williams, EPA Region IV
Rob Williamson, NAS Memphis

Lawson Anderson provided copies of additional benzo(a)pyrene data obtained from the laboratory. One additional hit was noted at 5 feet near the sewer manhole. As with the others, it was above residential but below industrial. Per David Williams, removal of the soil from the pit, followed by confirmatory (composite) sampling will be sufficient to clear the site for construction. Note: Jim Morrison was provided a copy of the results before departing and stated that he would review the data.

The meeting was adjourned at 4:00 pm.